

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/038,131	01/03/2002	Bogdan Szafraniec	P01,0382	7416
128	7590 09/15/2003			
HONEYWELL INTERNATIONAL INC. 101 COLUMBIA ROAD P O BOX 2245 MORRISTOWN, NJ 07962-2245			EXAMINER	
			TURNER, SAMUEL A	
			ART UNIT	PAPER NUMBER
			2877	
			DATE MAILED: 09/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			W
		Application No.	Applicant(s)
Office Action Summary		10/038,131	SZAFRANIEC ET AL.
		Examiner	Art Unit
		Samuel A. Turner	2877
Period fo	The MAILING DATE of this communicat or Reply	ion appears on the cover sheet w	ith the correspondence address
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 3's SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) date period for reply is specified above, the maximum statuto tree to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a ation. 1ys, a reply within the statutory minimum of thing period will apply and will expire SIX (6) MOI by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1)	Responsive to communication(s) filed	on	
2a)□	This action is FINAL . 2b)		
3)□ Disposit	Since this application is in condition fo closed in accordance with the practice ion of Claims		
4)🖂	Claim(s) 1-23 is/are pending in the app	lication.	
	4a) Of the above claim(s) is/are v	vithdrawn from consideration.	
5)[Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>1-23</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
8)[Claim(s) are subject to restriction	n and/or election requirement.	
Applicati	ion Papers		
9)[The specification is objected to by the E.	xaminer.	
10)🖾	The drawing(s) filed on <u>03 January 2002</u>	is/are: a)□ accepted or b)⊠ obje	ected to by the Examiner.
	Applicant may not request that any objecti	on to the drawing(s) be held in abey	rance. See 37 CFR 1.85(a).
11)[The proposed drawing correction filed or	n is: a)□ approved b)□ (disapproved by the Examiner.
	If approved, corrected drawings are requir	ed in reply to this Office action.	
12)	The oath or declaration is objected to by	the Examiner.	
Priority ι	ınder 35 U.S.C. §§ 119 and 120		
13)[Acknowledgment is made of a claim for	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)	☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority do	cuments have been received.	
	2. Certified copies of the priority doc	cuments have been received in A	Application No
* 5	3. Copies of the certified copies of t application from the Internation for the attached detailed Office action for	onal Bureau (PCT Rule 17.2(a)).	_
	Acknowledgment is made of a claim for c		
a) The translation of the foreign language.	age provisional application has b	peen received.
	Acknowledgment is made of a claim for a	domestic priority under 35 U.S.C	. §§ 120 and/or 121.
Attachmen	·	🗖	
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449) Paper	948) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

Art Unit: 2877

DETAILED ACTION

Page 2

Drawings

The drawings are objected to because figure 3 must be labeled as prior art. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

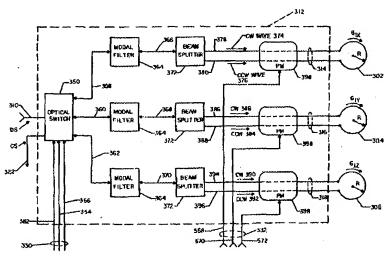
A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 8-19, and 23 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Page(5,157,461).

Page teaches a fiber optical gyroscope comprising a multi-turn fiber ring of single mode fiber that is 1 km in length, and a depolarizer (454) at each end of the fiber ring. See figure 28B. The depolarizers (454) are Loyt depolarizers which includes two sections of birefringent single mode fiber (PM fiber) spliced at 45 degrees. The depolarizers are coupled an integrated optical coupler (IOC) (312) which includes a modal filter (364) which is a polarizer. See figures 13 and 28A.

Art Unit: 2877



F16. 13

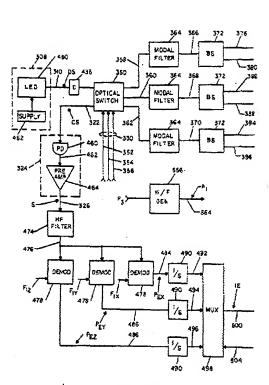


FIG. 28A

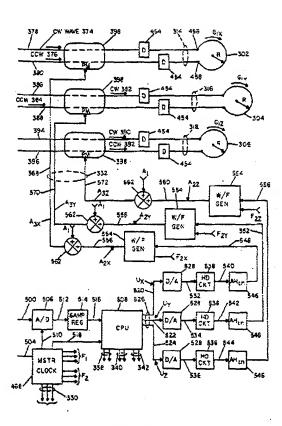


FIG. 288

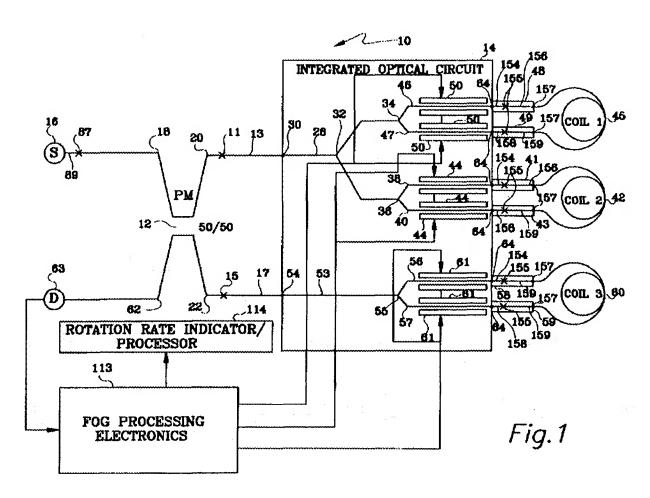
Application/Control Number: 10/038,131

Art Unit: 2877

Page 4

Claims 1, 3, 4, 11, 13-17, 19, 20, and 23 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Liu et al(5,854,678).

Liu et al teach a fiber optical gyroscope comprising a coil of single mode fiber(42), and first and second depolarizers(41,43) one at each end of the fiber coil. The depolarizers are attaches to an integrated optical circuit(14) which includes a Y coupler and a polarizing waveguide(28). See figure 1.



Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 5-7, 21, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Page(5,157,461).

A specific length for the depolarizers in Page is not given.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the depolarizers of any length as to reduce the signal fading at the detector.

Art Unit: 2877

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel A. Turner those telephone number is **(703) 308-4803**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font, can be reached on (703) 308-4881.

The fax phone number for this Group is (703) 308-7722. The faxing of papers related to this application must conform with the notice published in the Official Gazette, 1096 O.G. 30 (15 November 1989). The Group receptionist telephone number is (703) 308-0956.

Any inquiry of a technical nature regarding reissues, petitions, and terminal disclaimers should be directed to Hien Phan whose telephone number is (703) 308-7502, or Ed Westin whose telephone number is (703) 308-4823.

Any other inquiry of a technical nature, and all inquiries of a general nature including those relating to the status of this application or any patent term adjustment should be directed to TC2800 Customer Service Office whose telephone number is (703) 306-3329.

Samuel A. Turner Primary Examiner

Art Unit 2877

SAT 9/5/03